E72-10001

Progress Report No. 1

July 6, 1972

A. Title: ERTS-A Data User Investigation of Wetlands Ecology, SR/NO

B. Principal Investigator: Dr. Richard R. Anderson, The American University. UN-006.

C. No serious problems have been encountered to impede progress of the investigation. Bad weather has postponed and eliminated some field trips for gathering spectral reflectance information on wetland plant species.

D. The following are accomplishments during the first month of the investigation.

1. Field trips to various types of wetlands to train graduate student and to gather spectral reflectance information on wetland plant species.
2. Scheduling of and ground truth data gathering during NASA C130 overflight of test areas. The principal purpose of this experiment is to gather multispectral information in 12 channels using the NASA scanner.
3. Analysis of U-2 data over test site, taken during fall and winter months of 1971-72. This is providing experience with high altitude small scale data for each of the participants in the investigation.
4. Selection of scenes in test area with good multiband photography from U-2 flights for analysis in I^2S color additive viewer and Data color densitometric separations.

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5. Continue work on analysis of impact of watershed development on wetlands in Northeast River watershed. High altitude RB-57 color infrared data are being used for this study.

6. Attendance at and delivery of paper at the A.S.P. Coastal Mapping Symposium.

E. The shortness of the contract period has prevented the completion of any of the tasks involved in the pre-launch period of the investigation. More data on spectral reflectance characteristics of wetland features has been acquired. This activity will continue. Training of the graduate student participant is proceeding and is an important preparation for ERTS imagery. The study on use of high altitude data for watershed studies is almost complete and will be presented to the Soil Conservation District, Cecil County, Maryland.

F, G, H, I, J, K. Not applicable at this report date.